

Java Cheat Sheet

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Introduction

Java is one of the fundamental programming languages and is considered the most important one. **Java** is a general-purpose, class-based, object-oriented programming language designed for having lesser implementation dependencies. It is a computing platform for application development. Java is fast, secure, and reliable, therefore. It is widely used for developing Java applications in laptops, data centers, game consoles, scientific supercomputers, cell phones, etc.

Well we have seen so many different programming languages and if you are starting as a beginner the first question you might have in mind is why is there a need for so many different languages?

So to answer the above question, Java is a platform independent language. Now I know this explanation would not have been sufficient! To understand it better, consider this...

You are a Software Developer in an MNC and you have written a piece of code, now you want the client to just test the code without giving him your code. If you are using C++ or C language this is not possible. But as we know Java is a platform independent language this means that whatever code you have written in your program you can simply share the .class file instead of the .java file to make sure just the execution of the code is shared with the client.

Now coming back to the cheat sheet

Cheat-Sheet

How does Java Works ?

1. We write the source code in a .java file.
2. The compiler then compiles the code and if there are no errors the code gets converted to a .class file.
Remember the .class file is the bytecode. This is the code which we share and is a platform independent.
3. Compiled code can be shared and results in the output of the program after a successful run.
4. The Java Program can be run on a JVM that is the Java Virtual Machine with just a .class file. The JVM translates the bytecode into a language that the platform understands and hence, the output is displayed.

Understanding Hello World in Java

```
public class helloworld{  
    public static void main(String args[])  
    {  
        System.out.println("hello world");  
    }  
}
```